

Title (en)
ELECTROLYTES FOR LITHIUM SULFUR CELLS

Title (de)
ELEKTROLYTE FÜR LITHIUM-SCHWEFEL-ZELLEN

Title (fr)
ELECTROLYTES POUR PILES AU LITHIUM SOUFRE

Publication
EP 1726052 B1 20120314 (EN)

Application
EP 05705253 A 20050106

Priority
• US 2005000493 W 20050106
• US 75287604 A 20040106

Abstract (en)
[origin: US2005147891A1] Disclosed is an additive for an electrochemical cell wherein the additive includes an N-O bond. The additive is most preferably included in a nonaqueous electrolyte of the cell. Also disclosed are cells and batteries including the additive, and methods of charging the batteries and cells. An electrochemical cell including the additive preferably has an anode that includes lithium and a cathode including an electroactive sulfur-containing material.

IPC 8 full level
H01M 4/38 (2006.01); **H01M 4/13** (2010.01); **H01M 6/16** (2006.01); **H01M 10/05** (2010.01); **H01M 10/0567** (2010.01); **H01M 4/02** (2006.01); **H01M 4/136** (2010.01); **H01M 10/0568** (2010.01); **H01M 10/0569** (2010.01)

CPC (source: EP KR US)
H01M 4/02 (2013.01 - KR); **H01M 4/13** (2013.01 - EP US); **H01M 4/38** (2013.01 - EP US); **H01M 10/05** (2013.01 - KR); **H01M 10/052** (2013.01 - KR); **H01M 10/0567** (2013.01 - EP US); **H01M 4/136** (2013.01 - EP US); **H01M 4/40** (2013.01 - EP US); **H01M 6/164** (2013.01 - EP US); **H01M 6/166** (2013.01 - EP US); **H01M 10/0568** (2013.01 - EP US); **H01M 10/0569** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP)

Cited by
WO2022122905A1; FR3117679A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2005147891 A1 20050707; **US 7354680 B2 20080408**; AT E549760 T1 20120315; CA 2552563 A1 20050728; CN 100583519 C 20100120; CN 1930710 A 20070314; EP 1726052 A2 20061129; EP 1726052 B1 20120314; EP 1726052 B8 20120418; JP 2007518229 A 20070705; JP 5094123 B2 20121212; KR 101167334 B1 20120719; KR 20060125852 A 20061206; US 2007082270 A1 20070412; US 2008187840 A1 20080807; US 7553590 B2 20090630; US 7842421 B2 20101130; WO 2005069404 A2 20050728; WO 2005069404 A3 20060615

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